

COMPLETE IF KNOWN					
Application Number	10/519,239				
Confirmation Number	9717				
Filing Date	January 23, 2006				
First Named Inventor	Fountain et al.				
Group Art Unit	2131 .				
Examiner Name	CHEN, SHIN HON				
Attorney Docket No.	36321-8015.US01				

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application Kind Co NUMBER (if know		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1.	4,386,416		Giltner	5/31/83	
	2.	4,964,164		Fiat, Amos	10/16/90	
	3.	5,222,133		Chour et al.	10/17/91	
	4.	5,557,712		Guay	2/16/94	
	5.	5,734,744		Wittenstein	6/7/95	
	6.	5,764,235		Hunt et al.	3/25/96	
	7.	5,848,159		Collins et al.	12/08/98	
	8.	5,923,756		Shambroom, W. David	7/13/99	
	9.	5,963,642		Goldstein, Benjamin D.	10/5/99	
	10.	5,999,629		Heer et al.	10/31/95	
<u>-</u>	11.	6,021,198		Anigbogu	2/1/00	
	12.	6,061,448		Smith et al.	5/2000	
	13.	6,081,598		Dai, Wei	6/27/00	
	14.	6,081,900		Subramaniam et al.	6/27/00	
	15.	6,098,093		Bayeh	8/1/00	
	16.	6,098,096		Tsirigotis et al.	8/1/00	
	17.	6,105,012		Chang et al.	8/15/00	
	18.	6,154,542		Crandall	11/28/00	
	19.	6,216,212		Challenger et al.	4/10/01	
	20.	6,233,565		Lewis et al.	5/2001	
	21.	6,321,201		Dahl	11/20/01	
_	22.	6,396,926		Takagi, et al.	5/28/02	·
	23.	6,442,607 B	31	Korn et al.	8/27/02	
	24.	6,473,802		Masters	10/29/02	
	25.	6,477,646		Krishna, et al.	11/5/02	
	26.	6,519,365		Kondo et al.	2/11/03	

6

EXAMINER		DATE CONSIDERED
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	27.	6,553,393		Eilbott et al.	4/22/03	
	28.	6,578,061		Aoki, et al.	6/2003	
	29.	6,587,866		Modi <i>et al</i> .	7/1/03	
	30.	6,598,167		Devine et al.	7/22/03	
	31.	6,621,505		Beauchamp	9/16/03	
	32.	6,640,302		Subramaniam et al.	10/28/03	·
	33.	6,757,823		Rao, et al.	6/29/04	
	34.	6,763,459		Corella, Francisco	7/13/04	
	35.	6,874,089		Dick et al.	3/29/05	
	36.	6,886,095		Hind et al.	4/26/05	
	37.	6,915,427		Maruyama et al.	7/5/05	
, , , , , , , , , , , , , , , , , , , ,	38.	6,963,980		Mattsson	11/8/05	
	39.	6,990,636		Beauchamp	1/24/06	
	40.	6,990,660		Moshir et al.	1/24/06	
	41.	7,137,143		Chawla et al.	11/14/06	
	42.	7,152,244	B2	Toomey, Christopher	12/19/06	
	43.	7,272,229		Nakano et al.	9/18/07	
	44.	7,266,699		Newman et al.	9/4/07	·
	45.	7,325,129		Mattsson et al.	1/29/08	
	46.	10/526,252		Fountain et al.	2/24/05	
	47.	10/850,827		Koyfman	5/20/04	
	48.	11/236,046		Metzger et al.	9/26/05	
	49.	11/236,294		Metzger et al.	9/26/05	
	50.	11/236,061		Metzger et al.	9/26/05	
	51.	11/341,060		Metzger et al.	1/2706	
	52.	2002/0012473	A1	Kondo <i>et al.</i>	9/30/1997	

6

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	53.	2002/0015497	A1	Maruyama <i>et al</i> .	2/7/02			
	54.	2002/0016911	A1	Chawla et al.	7/9/01			
	55.	2002/0039420	A1	Schacham et al.	6/8/01			
	56.	2002/0066038	A1	Mattsson	11/29/00			
	57.	2002/0073232	A1	Hong et al.	6/13/02			
	58.	2002/0087884	A1	Shacham et al.	6/8/01			
	59.	2002/0100036	A1	Moshir et al.	7/25/02			
	60.	2002/0112167	A1	Boheh et al.	10/2/02			
	61.	2003/0014650	A1	Freed et al.	1/16/03			
	62.	2003/0039362	A1	Califano et al.	2/27/03			
	63.	2003/0046572	A1	Newman et al.	3/6/03			
	64.	2003/0065919	A1	Albert et al.	4/3/03			
	65.	2003/0097428	A1	Afkhami	5/22/03			
	66.	2003/0101355	A1	Mattsson	12/28/01			
	67.	2003/0123671	A1	He et al.	7/03/03			
	68.	2003/0156719	A1	Cronce	8/21/03			
•	69.	2003/0197733	A1	Beauchamp	9/23/03			
	70.	2003/0204513	A1	Bumbulis	10/30/03			
	71.	2004/0015725	A1	Boneh et al.	7/24/02			
	72.	2004/0255140	A1	Margolus et al.	12/16/04			
	73.	2005/0004924	A1	Baldwin, Adrian	1/6/05			
	74.	2006/0041533	A1	Koyfman	2/23/06			
	75.	2006/0149962	A1	Fountain et al.	7/6/06			
	76.	2007/0074047	A1	Metzger et al.	9/26/05			
	77.	2007/0079140	A1	Metzger et al.	4/5/07			
	78.	2007/0079386	A1	Metzger et al.	9/26/05			

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Examiner Initials*	Cite No.	For	Filing Date Where Relev Kind Code Name of Patentee or Applicant of Cited Passages or Re		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т		
	79.	EP	0 946 018	B1	Nippon Telegraph & Telephone	9/29/99		
	80.	WO	01/03398	A3	IBM Corp and IBM UK Limited	1/11/01		
	81.	WO	02/101605	A2	Godfrey et al.	12/19/02		
			OTHE	R NON	PATENT LITERATURE DOCU	MENTS		
Examiner Initials*	Cite No.	(t	Include name of th book, magazine, journ	e author (al, serial,	(in CAPITAL LETTERS), title of the article symposium, catalog, etc.), date, page(s) and/or country where published.), volume issue numb), title of the item per(s), publisher, city	т
	82.	1999, <u>URL:</u>	Alteon Web Systems: "The Next Step in Server Loading Balancing" November 1999, Retrieved from the Internet: <u>URL:http://www.nortelnetworks.com/products/library/collateral/intel_int/webworking_wp.pdf</u> , Retrieved on March 2, 2004; pages 1-15.					
	83.	the In	Alteon Web Systems: "Networking with the Web in Mind" May 1999, Retrieved from the Internet: URL:http://www.nortelnetworks.com/products/library/collateral/intel_int/webworking wp.pdf, Retrieved on March 2, 2004; page 1, pages 1-11.					
	84.		Boneh, D., "Twenty Years of Attacks on the RSA Cyrptosystem," Notices of the AMS, Vol 46, No. 2, pp. 203-213, 1999					
	85.	Boneh, et al., "An Attack on RSA Given a Small Fraction of the Private Key Bits," ASIACRYPT '98, LNCS 1514, pp. 25-34, 1998						
	86.		Boneh, et al., "Cryptanalysis of RSA with Private Key d Less than N ^{0.292} ," (extended abstract), 1999					
	87.	Bone	Boneh, et al., "Efficient Generation of Shared RSA Keys," (extended abstract)					
	88.	Durfee, G., et al., "Cryptanalysis of the RSA Schemes with Short Secret Exponent						

EXAMINER		DATE CONSIDERED
		·
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from Asiacrypt '99," ASIACRYPT 2000, LNCS 1976, pp. 14-29, 2000

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6

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		OTHER NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	Т
	89.	Fiat, A. "Batch RSA, (digital signatures and public key krypto-systems)" Advances in Crytology – Cryto '89 Proceedings 20-24 August, 1989, Springer-Verlag	
	90.	Großschädl, J., et al., "The Chinese Remainder Theorem and its Application in a High-Speed RSA Crypto Chip," 2000	
	91.	Herda, S., "Non-repudiation: Constituting evidence and proof in digital cooperation," Computer Standards and Interfaces, Elsevier Sequoia, Lausanne, CH, 17:1 (69-79) 1995.	
	92.	Immerman, N., "Homework 4 with Extensive Hints," 2000	
	93.	Menezes, A., et al., "Handbook of Applied Cryptography," 1996 CRC Press, pp. §8.2-8.3 and §14.5	
	94.	Netscape; "Netscape Proxy Server Administrator's Guide, Version 3.5 for Unix"; February 25, 1998; Retrieved from the Internet.	
	95.	Oppliger, R.; "Authorization Methods for E-Commerce Applications"; 1999	
	96.	RSA Laboratories: "PKCS #7: Cryptographic Message Syntax Standard, Version 1.5," RSA Laboratories Technical Note, pp. 1-30, November 1, 1993.	
	97.	RSA "PKCS #1 v2.0 Amendment 1: Multi-Prime RSA," 2000	
	98.	"Security Protocols Overview (An RSA Data Security Brief)", RSA Data Security, 1999, http://www.comms.scitech.susx.ac.uk/fft/crypto/security_protocols.pdf , pages 1-4.	
	99.	Schacham, H., et al., "Improving SSL Handsake Performance via Batching," Topics in Cryptology, pp. 28-43, 2001.	
	100	Shand, M., et al., "Fast Implementations of RSA Cryptography," (1993).	
	101	Sherif, M.H., et al., "SET and SSL: Electronic Payments on the Internet," IEEE, pp. 353-358 (1998).	

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	102	Stallings, W., "IP Security," Network Security Essentials, Applications and Standards, Chapters 6 and 7, pp. 162-223 (2000).	
	103	Takagi, T., "Fast RSA-Type Cryptosystem Modulo pkq," pages 318-326, (1998).	
	104	Takagi, T., "Fast RSA-Type Cryptosystems Using N-Adic Expansion," Advances in Technology – CRYPTO '97, LNCS 1294, pp. 372-384, 1997.	
	105	Wagner, Neal R., "The Laws of Cryptography": The RSA Cryptosystem", http://www.cs.utsa.edu/~wagner/laws/RSA.html .	
	106	Wiener, M., "Cryptanalysis of Short RSA Secret Exponents," (1989).	

6

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D.C.C.	considered. Include conv. of this form with next communication to application(s)		